What is claimed is:

1. A method of establishing communications between a base station and a system controller over a network, comprising:

identifying a plurality of paths in the network, each path defined by an address in the base station and an address in the system controller; and

selecting one of the plurality of paths to communicate data associated with a given mobile station.

2. The method of claim 1, wherein selecting one of the plurality of paths comprises performing an implicit negotiation in which the path is defined by a source address of a message communicated by the base station and by a source address of a message communicated by the system controller.

3. The method of claim 2, wherein performing the implicit negotiation comprises sending and receiving messages in a session having bi-directional data flow.

4. The method of claim 1, wherein the network is a packet-switched, connectionless network, and wherein selecting one of the plurality of paths comprises selecting one of a plurality of virtual connections on the packet-switched, connectionless network, each virtual connection based on a base station address and a system controller address.

5. The method of claim 1, further comprising selecting another path by sending a message from another source address.

6. The method of claim 5, wherein sending the message comprises sending a UNITDATA message.

7. The method of claim 1, further comprising selecting another path by sending a change-route request.

8. The method of claim 7, wherein sending the change-route request comprises sending a General Packet Radio Service NS-CHANGEROUTE request.

9. The method of claim 7, wherein selecting another path by sending the change-route request is part of an explicit path negotiation.

10. The method of claim 7, wherein selecting another path by sending a change-route request is performed during a session having unidirectional data flow between the base station and the system controller.

11. The method of claim 7, wherein sending the change-route request comprises sending a request containing an identifier of a mobile station.

12. The method of claim 11, wherein the identifier comprises a General Packet Radio Service temporary logical link identifier.

13. The method of claim 7, wherein sending the change-route request comprises sending the change-route request using a new source address, and wherein selecting the other path is based on the new source address.

14. The method of claim 1, further comprising:

disabling an address; and

sending a change-route request containing the disabled address to change a path for each mobile station assigned a path defined by the disabled address.

15. A first system for use in a mobile communications network, comprising:

a communications module adapted to communicate over a packet-switched network coupled to a second system, the first system being one of a base station and a system controller and the second system being another one of the base station and the system controller;

a storage element containing one or more first addresses associated with the first system; and

a control module adapted to select one of plural paths over the packet-switched network, each path defined by one address associated with the first system and one address associated with the node.

16. The first system of claim 15, wherein the communications module is adapted to communicate over a Gb interface provided in the packet-switched network.

17. The first system of claim 15, comprising the base station.

18. The first system of claim 15, comprising the system controller, the system controller comprising a serving GPRS support node.

19. The first system of claim 15, wherein each path comprises a virtual connection.

20. The first system of claim 15, wherein each address comprises an Internet Protocol address.

21. The first system of claim 15, wherein each path is further defined by a User Datagram Protocol port of the first system and a User Datagram Protocol port of the second system.

22. The first system of claim 15, wherein the control module comprises a load sharing task to select different paths for different mobile stations.

23. The first system of claim 15, further comprising a GPRS Network Service layer, the Network Service layer comprising the control module.

24. The first system of claim 23, further comprising an upper layer, the Network Service layer exchanging primitives with the upper layer.

25. The first system of claim 24, wherein the primitives comprise an NS-UNITDATA-Request primitive carrying outbound data and an NS-UNITDATA-Indication primitive carrying inbound data, the NS-UNITDATA-Indication primitive containing a remote link selector parameter, and the NS-UNITDATA-Request primitive containing the remote link selector parameter and a local link selector parameter.

26. The first system of claim 25, wherein the control module is adapted to select an address associated with the first system based on the local link selector parameter.

27. The first system of claim 26, wherein the control module is adapted to select an address associated with the second system based on the remote link selector parameter.

28. An article comprising at least one storage medium containing instructions for recovering communications over a network between a system controller and a base station, the instructions when executed causing a first node to:

disable an address in the first node, the first node being one of the base station and the system controller; and

redirect subsequent data from the first node to a primary address of a peer node, the peer node being the other one of the base station and the system controller.

29. The article of claim 28, wherein the instructions when executed cause the first node to communicate data over a packet-switched, connectionless network.

30. A method for load sharing between communication ports on an originating device and a destination device where the communication link is an Internet Protocol-based communication link, comprising:

receiving a first message from an originating device on a communication port of a destination device, the communication port identified by an original Internet Protocol address;

determining which communication port on the destination device to use for subsequent messages in response to receiving the first message, the communication port to be used for subsequent messages identified by a new Internet Protocol address;

transmitting a change-route message from the destination device to the originating device, the change-route message specifying the new Internet Protocol address for messages transmitted from the originating device to the destination device.

31. The method of claim 30, further comprising:

receiving the change-route message at the originating device; and

changing a destination Internet Protocol address to the new Internet Protocol address for subsequent messages transmitted from the originating device to the destination device.

32. The method of claim 30, wherein the originating device is a base station and the destination device is a serving GPRS (Global Packet Radio Service) support node.

33. The method of claim 30, wherein the originating device is a serving GPRS (Global Packet Radio Service) support node and the destination device is a base station.

34. The method of claim 30, further comprising transmitting subsequent messages from the originating device to the new Internet Protocol address on the destination device.

35. The method of claim 30, wherein load sharing is performed on a per mobile station basis.

36. A data signal embodied in a carrier wave comprising instructions for performing implicit load sharing in a network between nodes in a wireless communications network, the instructions when executed causing a first node to:

receive a signal from a mobile station;

select a first address of one or more first node addresses to use for servicing the mobile station;

transmit a message containing the signal from the first node to a primary address of a second node;

receive another message from the second node, the other message sent from a second address associated with the second node; and

select a path based on the first and second addresses.

37. An article comprising at least one storage medium containing instructions for establishing communications between a base station and a system controller, the instructions when executed causing a first node to:

identify a plurality of paths in the network, each path defined by an address in the base station and an address in the system controller, the first node being one of the base station and system controller; and

select one of the plurality of paths to communicate data associated with a given mobile station.

38. The article of claim 37, wherein the instructions when executed cause the first node to:

select one of the plurality of paths by performing an implicit negotiation in which the path is defined by a source address of a message communicated by the base station and by a source address of a message communicated by the system controller.

39. The article of claim 37, wherein the network is a packet-switched, connectionless network, and wherein the instructions when executed cause the first node to select one of the plurality of paths by selecting one of a plurality of virtual connections on the packet-switched, connectionless network, each virtual connection based on a base station address and a system controller address.

40. The article of claim 37, wherein the instructions when executed cause the first node to further select another path by sending a message from another source address.

41. The article of claim 37, wherein the instructions when executed cause the first node to further select another path by sending a change-route request.

42. The article of claim 41, wherein the instructions when executed cause the first node to send the change-route request containing an identifier of a mobile station.

43. The article of claim 42, wherein the instructions when executed cause the first node to send the change-route request using a new source address, and to select the other path is based on the new source address.

44. The article of claim 37, wherein the instructions when executed cause the first node to further:

disable an address; and

send a change-route request containing the disabled address to change a path for each mobile station assigned a path defined by the disabled address.